

**To:** Caporale, Cynthia[Caporale.Cynthia@epa.gov]; Gundersen, Jennifer[Gundersen.Jennifer@epa.gov]  
**From:** Warner, Sue  
**Sent:** Tue 3/18/2014 8:03:28 PM  
**Subject:** RE: Charleston DW GC/MS Data Request

I reviewed the data sent by [Ex. 6 - Personal Privacy] from Battelle and the only compounds detected were the cis and trans isomers of MCHM.

**From:** [Ex. 6 - Personal Privacy]@battelle.org]  
**Sent:** Friday, March 14, 2014 4:36 PM  
**To:** Warner, Sue  
**Subject:** RE: Charleston DW GC/MS Data Request

Sue, the data are attached. I want to apologize for the delay. Our instruments were Agilent 5973 MDSs. NIST 02 was used to identify the few peaks that are present in the chromatograms. Our matches to NIST were not good; however, we used a standard of 4-MCHM provided to us with our first set of samples to create a calibration curve for analysis. So we compared spectra and retention times to the calibration standards. Autotunes were run prior to each set of samples on each instrument. All tunes passed using the criteria in the Agilent manual. The method was provided to us by the Ohio CST unit. I do not know where they got it. The handwritten comments on the reference method were made by Battelle to adapt the GC-FID method to the Mass Spec. Please let me know if you have any questions.

Thanks,

[Ex. 6 - Personal Privacy]

Principal Research Scientist

Hazard Characterization

CBRNE Defense Threat Assessment Group

**Ex. 6 - Personal Privacy**

Battelle

505 King Ave

Columbus, Ohio 43201

<http://www.battelle.org>

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**From:** Warner, Sue [<mailto:Warner.Sue@epa.gov>]

**Sent:** ~~Exempt from FOIA~~ Monday, March 14, 2014 8:57 AM

**To:** ~~Ex. 6 - Personal Privacy~~

**Cc:** ~~Ex. 6 - Personal Privacy~~ r@amwater.com'; 'Walt Ivey'; binetti, victoria; Arguto, William; Caporale, Cynthia

**Subject:** RE: Charleston DW GC/MS Data Request

~~Ex. 6 - Personal Privacy~~

I'm just checking on the status of the data request. Please let me know if you have any questions.

Thanks.

Sue

**From:** Ex. 6 - Personal Privacy [attelle.org]  
**Sent:** Tuesday, March 04, 2014 11:53 AM  
**To:** Arguto, William; Warner, Sue; Caporale, Cynthia  
**Cc:** Ex. 6 - Personal Privacy [n]; 'Walt Ivey'; binetti, victoria  
**Subject:** RE: Charleston DW GC/MS Data Request

I have been on travel the last two weeks but I will be back in the office next week. I can assemble the requested information early next week. I anticipate no issues in getting you the requested data.

Thank you,

Ex. 6 - Personal Privacy

-----Original Message-----

**From:** Arguto, William [Arguto.William@epa.gov]  
**Sent:** Tuesday, March 04, 2014 11:39 AM Eastern Standard Time  
**To:** Warner, Sue; Ex. 6 - Personal Privacy [aporale, Cynthia  
**Cc:** Ex. 6 - Personal Privacy [ater.com]; Walt Ivey; binetti, victoria  
**Subject:** RE: Charleston DW GC/MS Data Request

Ex. 6 - Personal Privacy Sue

Thank you for pursuing this information and please let me know of any delays in processing this request. This information will be important in increasing our understanding of any additional DBP formation in the distribution system and is the one piece of actual results that will add to the theoretical discussions we have on this chemical and its potential to form DBPs. This request has been discussed and supported by the West Virginia Department of Health and Human Resources and the American Water Co who are also cc'd on this email.

If you have any additional questions please call me at 215-814-3367

William Arguto

U.S. EPA Region 3

Drinking Water Branch Chief

**From:** Warner, Sue  
**Sent:** [REDACTED] 25, 2014 1:04 PM  
**To:** [REDACTED] Ex. 6 - Personal Privacy; Morale, Cynthia  
**Cc:** Arguino, William  
**Subject:** RE: Charleston DW GC/MS Data Request



We would like data provided for the following samples. Can you run the TIC reports against the NIST or similar library for each of these samples and process data for the 20 largest TICs? You don't have to assess or review the data. You can send it to us and we will review the TIC data. Thank you very much for your assistance in this matter.

Please let me know if you have any questions.

Sue

Sue Warner

Chemist

Office of Analytical Services and Quality Assurance

U.S. Environmental Protection Agency  
Environmental Science Center  
701 Mapes Road  
Ft. Meade, MD 20755-5350  
(410)305-2658  
Fax(410)305-3096

Sample Location	Date	Sample Number	MCHM Concentration (ppm)	Comments
RT2 BOX238A1/PUT	1/13/2014	0339	1.372	
MAP #72201/PUT	1/12/2014	2345	0.804	
2579	1/13/2014	1325	2.831	
Price Branch & Thurmond	1/13/2014	1400	0.908	
St HSE #6001 / Z-13				
HYD 2616 Sunny Slide LN, Wineforde Hollow/ Z-12	1/13/2014	2230	1.066	

**From:** Ex. 6 - Personal Privacy [mailto:[Ex. 6 - Personal Privacy@atlle.org](mailto:Ex. 6 - Personal Privacy@atlle.org)]  
**Sent:** Friday, February 21, 2014 3:12 PM  
**To:** Caporale, Cynthia  
**Cc:** Warner, Sue; Arguto, William  
**Subject:** RE: Charleston DW GC/MS Data Request

Actually now that I have had a chance to look at everything again, I do have a couple of questions. I am having some trouble identifying which samples fit with your request. I received a COC with limited information with each set of samples. I have attached a memo report containing all results. Would you please identify the samples for which you would like us to provide data?

Also, just to clarify, we did acquire data in full scan mode however we did not process it for all peaks within the chromatogram. We only looked for cis and trans MCHC using retention time and spectral matching to the reference material provided for use as a standard. We did not use an EPA type protocol. We were provided a Dupont method through the CST unit.

Ex. 6 - Personal Privacy

Principal Research Scientist

Hazard Characterization

CBRNE Defense Threat Assessment Group

## Ex. 6 - Personal Privacy

### Battelle

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**From:** Caporale, Cynthia [<mailto:Caporale.Cynthia@epa.gov>]

**Sent:** Friday, February 21, 2014 7:57 AM

**To:** Ex. 6 - Personal Privacy

**Cc:** Warner, Sue; Arguto, William

**Subject:** RE: Charleston DW GC/MS Data Request

Hi Julie.

Thank you for your response. We look forward to the information you can share concerning the DW samples. If you have any specific questions please don't hesitate to call me or Sue Warner (410)305-2658.

Thanks!

Cindy

Cynthia Caporale, Chief  
OASQA Laboratory Branch  
U.S. EPA Region III  
Environmental Science Center  
Fort Meade, MD  
(410) 305-2732  
Fax: (410) 305-3095

**From:** **Ex. 6 - Personal Privacy** [battelle.org]  
**Sent:** Monday, February 17, 2014 1:04 PM  
**To:** Caporale, Cynthia  
**Subject:** RE: Charleston DW GC/MS Data Request

We did run samples. I will get you a data package this week.

Thanks,

**Ex. 6 - Personal Privacy**

Principal Research Scientist

Hazard Characterization

CBRNE Defense Threat Assessment Group

**Ex. 6 - Personal Privacy**

## Ex. 6 - Personal Privacy

**Battelle**

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**From:** Caporale, Cynthia [<mailto:Caporale.Cynthia@epa.gov>]

**Sent:** Friday, February 14, 2014 2:47 PM

**To:** Ex. 6 - Personal Privacy

**Cc:** Warner, Sue

**Subject:** Charleston DW GC/MS Data Request

Ex. 6 - Personal Privacy

I am the USEPA R3 Lab Manager and I am working with our Drinking Water Program managers to review existing GC/MS data that may have been acquired by laboratories during the initial days of the Charleston Drinking Water Incident.

Did your laboratory run the drinking water samples using GC/MS in full-scan for any of the drinking water samples (pre- and post-treatment)? If so, we would be interested in the raw data from some of the



sample analysis. Below is the specific information we are seeking.

VOC and SVOC GC/MS raw data files, including a TIC report processed against the NIST or similar library, which includes the chromatogram and spectra for the 20 largest TICs, for the following samples that were been analyzed using a full scan rather than targeted MCHM scan:

- Approximately 4 of the highest quantitative results for MCHM at locations in the distribution system
- Plant finished water sample showing high quantitative result for MCHM

Please clarify the instrument type, method used (Drinking water versus SW-846 type protocol), and preservative/quench agent.

Please feel free to contact me for more information or if you have any questions.

Thanks,  
Cindy

Cynthia Caporale, Chief  
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U.S. EPA Region III  
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